



FIELD CHECKED BY T. DAWSON, 1960

LOCATION: 9-16N-9W

NW

950' NL, 1800' WL

ELEVATION: 642, 650 KB (Topo Map)

June 3, 1960

Mr. Norman Eastmoore, Jr.
Food Machinery and Chemical Corporation
Newport Chemical Plant
P. O. Box 34
Newport, Indiana

Dear Mr. Eastmoore:

Mr. Maynard E. Collier, Chemist, has reported the following results on the water sample which you recently sent to us (all results in parts per million):

Mt. Simon, 5450-6160

Total Solids	204,400
Chloride	125,000
Sulfate	508
Carbonate	0.0
Bicarbonate	116
Hydroxide	0.0
Calcium	22,400
Magnesium	2,840

pH was determined to be 4.95 (measured on a sample under normal laboratory conditions).

We anticipate determining sodium, potassium, total iron (prior filtration), and probably manganese later this month. When these determinations are available I will forward them to you.

A qualitative spectrographic examination of the residue obtained by evaporation of the brine indicated trace quantities of boron, silicon, lithium, and minor quantities of manganese and strontium. Among the elements not detected were: barium, beryllium, lead, aluminum, titanium, and zirconium. No quantitative results for strontium will be available in the near future. If you desire quantitative information on the trace elements, including strontium, I suggest you obtain the services of a commercial laboratory.

Sincerely yours,

R. K. Leininger, Head
Geochemistry Section

RKL:ew

cc John B. Patton
T. A. Dawson